Check Point is a pioneer in the IT security industry. Since 1993, it has been the industry leader in network security technology, with the release of FireWall-1 and with its patented Stateful Inspection Technology. Check Point’s success is based on constant technological innovation and a customer-driven philosophy, as well as a relentless focus on providing comprehensive, innovative security.

When you join Check Point, you become part of a driven and creative team dedicated to delivering innovative technologies and industry-best protection in this ever-changing threat landscape.

At Check Point, we secure the future. Join us and secure your future with us!

1. Position (title of the project): Platforms automation framework

For graduate students / undergraduate students: Both

Job description: Develop a new framework for automatic testing. Create an automation of testing environment, allowing developers to verify their work by a click of a button. The project will explore the framework that would allow these tests to be written and executed.

Requirements: Java, C knowledge.

Full/part time position: Both.

HR contact: Noa Stienman noast@checkpoint.com

2. Position (title of the project): Develop New smartphone app for check point products (iOS / android)

For graduate students / undergraduate students: Both

Job description: develop a new mobile app for easy operation of Check Point products. This new app will take our operations to the next level in terms of user-experience and simplicity.

Requirements: iOS/Android development environment, Basic networking.

Full/part time position: Both

HR contact: Noa Stienman noast@checkpoint.com
3. **Position (title of the project):** Cloud based security feed & automation channel

**For graduate students / undergraduate students:** Both

**Job description:** Develop a cloud based service that will receive security events from security devices around the globe via web services. The service will store the events and present them via a “Facebook-like” feed to the customer who owns the security device. In addition, the service will provide an IFTTT channel to allow customers to create automation rules based on these events.

For example:
- Send me an Android push notification when a virus entered my network
- Blink the lights in my living room if someone in my home browses to an inappropriate site 😊

**Requirements:**
- Java programming – Must
- Knowledge in web services or REST services – Must
- Knowledge in SQL database - Nice to have
- Knowledge in web development - Nice to have
- Familiarity with IFTTT automation protocol - Nice to have

**Full/part time position:** Full

**HR contact:** Noa Stienman noast@checkpoint.com

4. **Position (title of the project):** Development of an internet simulation package

**For graduate students / undergraduate students:** both

**Job description:** In this project we will integrate a network simulator into our malware lab infrastructure in order to harvest as much information as possible.

**Requirements:** Python – must, network protocol understanding – advantage

**Full/part time position:** Full

**HR contact:** Noa Stienman noast@checkpoint.com
5. Position (title of the project): Data mining

Job description: The overall goal of the data mining process is to extract information from a data set and transform it into an understandable structure for further use. The goal is the extraction of patterns and knowledge from large amount of data.

For graduate students / undergraduate students: undergraduate with relevant or graduate students.

Requirements: Python, algorithms, familiarity with data mining / machine learning, security - advantage

Full/part time position: Full

HR contact: Noa Stienman noast@checkpoint.com

6. Position (title of the project): Cloud Deployment Solutions software developer

For graduate students / undergraduate students: both

Job description: Develop a reporting tool to be used by company managers for reflecting usage of deployment cloud services by Check Point customers, and for monitoring service availability

Requirements: C/C++, JavaScript

Full/part time position: Full

HR contact: Noa Stienman noast@checkpoint.com
7. Position (title of the project): Gateways overview

For graduate students / undergraduate students: undergrads

Job description: Develop C# management UI for gateways overview.

Requirements: OO knowledge (course) and Java/C# knowledge

Full/part time position: Full

HR contact: Noa Stienman noast@checkpoint.com

8. Position (title of the project): Document Protection for the Government and Defense industry

For graduate students / undergraduate students: graduate students or last year students

Job description: Research of PKI, Two factor authentication research & implementation in C++. Public Key Infrastructure research & implementation in C++.

Requirements: Basic knowledge of Windows Internals and Network Protocols (HTTP/HTTPs), Object Oriented knowledge, C++ programming experience, Research and automatous learning skills

Full/part time position: Full

HR contact: Noa Stienman noast@checkpoint.com
9. **Position (title of the project):** iOS File Shares

For graduate students / undergraduate students: Both

**Job description:** Develop iOS application to work with remote file shares.

Coding for iOS mobile devices using Objective C with the latest development tools and frameworks. Some PHP for backend support.

Create a working solution that will find its way into Check Point Capsule Workspace application in the app store.

For more information about Capsule Workspace please visit www.checkpoint.com/capsule

Mobile development is a very hot and required qualification.

**Requirements:** Eager & capable of learning new technologies autonomously

Hard working, serious & autonomous developer

Good coding skills

Prior objective C experience is a major advantage

**Full/part time position:** 300 hours part or full

**HR contact:** Noa Stienman noast@checkpoint.com
10. **Position (title of the project):** Automatic OSINT exploits IPS protections

**For graduate students / undergraduate students:** Both

**Job description:** Develop a new tool that accesses OSINT resources and automatically creates IPS Protections over publicly known exploits.

The developer will explore various OSINT resources, such as Exploit DB and Virus Total, investigate the data received by these resources and will write a tool that automatically creates PCAPs and IPS protections, possibly using additional existing tools for automatic protections creation.

**Requirements:** Python/C#, C

**Full/part time position:** Full

**HR contact:** Noa Stienman noast@checkpoint.com

11. **Position (title of the project):** Threat Cloud Metrics Framework

**For graduate students / undergraduate students:** Both

**Job description:** Develop a new framework and UI for automatic monitoring, testing and analysis of Threat Cloud data. The framework will allow following and improving malwares detection rate, identify and prevent false positives, test the impact of new data, and correlate statistics from different sources.

**Requirements:**
Knowledge in web client & server programming – Must
Knowledge in SQL database – Must
Java programming – Nice to have
AngularJS programming – Nice to have
REST web services programming – Nice to have
Knowledge in Big Data technologies – Advantage
Familiarity with automatic testing – Advantage

**Full/part time position:** Full

**HR contact:** Noa Stienman noast@checkpoint.com
12. **Position (title of the project):** Analysis tools for large scale development building environment

**For graduate students / undergraduate students:** both

**Job description:** Develop various tools to measure and analyze in real time different aspects of our large scale of development building environment for better monitoring & decision making. Including: actual build monitor load, black listing servers algorithm per different criteria, performance and productivity measurements, reports generation and automatic notifications.

**Requirements:** Scripting languages. Unix – an advantage

**Full/part time position:** both

**HR contact:** Noa Stienman [noast@checkpoint.com](mailto:noast@checkpoint.com)

13. **Position (title of the project):** Automated testing of DevOps releases

**For graduate students / undergraduate students:** both

**Job description:** Develop testing automation tools to support our ongoing DevOps releases as part of our SCRUM cycles, including: define and design tests, develop simulators & reports

**Requirements:** Scripting languages.

UNIX – an advantage

**Full/part time position:** both

**HR contact:** Noa Stienman [noast@checkpoint.com](mailto:noast@checkpoint.com)
14. **Position (title of the project):** Simulator of hotfixes installation verification tool

For graduate students / undergraduate students: both

**Job description:** Continue developing the proof-of-concept tool and improve it to make it on production level.

**Requirements:** Scripting languages

Full/part time position: both

HR contact: Noa Stienman [noast@checkpoint.com](mailto:noast@checkpoint.com)

15. **Position (title of the project):** Various DevOps tasks

For graduate students / undergraduate students: both

**Job description:** Improvement of our development environment and infrastructure with various tasks related to building, packaging, algorithms improvements, bug fixes, better warning and errors mechanisms and more.

**Requirements:** Scripting languages.

UNIX – an advantage

Full/part time position: both

HR contact: Noa Stienman [noast@checkpoint.com](mailto:noast@checkpoint.com)
16. **Position (title of the project):** Interlays Portal

**For graduate students / undergraduate students:** Both

**Job description:** Develop a new framework and UI for automatic monitoring, testing and analysis of Intelisys data.
The framework will allow to follow and improve Intelisys data, identify failures on customers’ deployments and server’s correlations, test the impact of new data and correlate statistics from different customers.

**Requirements:**
- Knowledge in web client & server programming – Must
- Knowledge in databases – Must
- Java programming – Nice to have
- AngularJS programming – Nice to have
- REST web services programming – Nice to have
- Knowledge is Solr DB - advantage
- Knowledge in Big Data technologies – Advantage
- Familiarity with automatic testing – Advantage

**Full/part time position:** Full

**HR contact:** Noa Stienman noast@checkpoint.com

17. **Position (title of the project):** Industrial control system simulator

**For graduate students / undergraduate students:** graduate

**Job description** the industrial control system simulator will be used by R&D and QA to mimic customer end to end environment for research and testing. The project will cover:
- Design an automated industrial scenario to simulate.
- Develop a human machine interface (HMI) application and industrial control system logic (PLC) that simulate the control of the industrial scenario using a SCADA network protocol.
- Develop attack scripts on the simulated system.

**Requirements:**
- Experience in Java and/or C#
- Practice networking and TCP/IP
- Quick and creative solution finding abilities
- High orientation to details

**Full/part time position:** Full

**HR contact:** Noa Stienman noast@checkpoint.com
18. **Position (title of the project):** Event Analysis Research

For graduate students / undergraduate students: graduate

**Job description:** Research and develop event analysis for big data repository of firewall logs. Using data mining techniques to spot traffic anomalies and cross reference the anomalies with cyber threat intelligence resources

**Requirements:**
- Strong development skills – must
- Proven academic background on data mining/machine learning – must
- Network protocol understanding – advantage
- Security research experience – advantage

**Full/part time position:** Full

**HR contact:** Noa Steinman noast@checkpoint.com